APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE PATOKA RIVER WATERSHED 1991 TO 1997

Station P-35

	Valid N	Mean	Confid. -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std Err. Kurtosis
Alkalinity (mg/l)	21	78.38095	66.04245	86.71946	68	1604	47	135	63	80	88	17	515.8476	22.71228	4.956226	1.487879	0.501195	1.655632	0.971941
Ammonia (mg/l as N)	21	0.092857	0.060441	0.125273	0.05	1.95	0.05	0.3	0.05	0.1	0.25	0.05	0.005071	0.071214	0.01554	1.768285	0.501195	2.479771	0.971941
BOD (mg/l)	17	1.682353	1.058119	2.306587	1.6	28.6	0.5	5.9	1.1	1.9	5.4	0.8	1.474044	1.214102	0.294463	2.758452	0.549747	9.867504	1.063198
COD (mg/l)	21	16.30476	13.32293	19.2866	15.2	342.4	9.4	40	11.7	18.4	30.6	6.7	42.91148	6.550685	1.429477	2.476835	0.501195	8.364612	0.971941
Cyanide (mg/l)	19	0.005368	0.004881	0.005856	0.005	0.102	0.005	0.009	0.005	0.005	0.004	0	1E-06	0.001012	0.000232	3.100086	0.523767	9.874891	1.01427
Nitrate (mg/l as N)	21	1.780952	1.300163	2.261742	1.8	37.4	0.4	4.7	1	2.4	4.3	1.4	1.115619	1.056229	0.230488	0.988211	0.501195	1.453309	0.971941
Total Phosphorus (mg/l as P)	21	0.161905	0.104586	0.219223	0.15	3.4	0.05	0.63	0.1	0.17	0.58	0.07	0.015856	0.125921	0.027478	2.889704	0.501195	9.849793	0.971941
Total Solids (mg/l)	21	343.0952	282.3705	403.8199	306	7205	194	605	236	473	411	237	17796.59	133.4039	29.11111	0.663529	0.501195	-1.0074	0.971941
Suspended Solids (mg/l)	21	69.19048	47.29727	91.08369	56	1453	16	196	28	93	180	65	2313.262	48.09638	10.49549	1.195109	0.501195	1.055386	0.971941
Dissolved Solids (mg/l)	7	255.2857	166.3838	344.1876	231	1787	151	438	179	311	287	132	9240.238	96.12616	36.33227	1.212407	0.793725	1.592119	1.587451
Sulfate (mg/l)	7	105.8571	50.97232	160.742	87	741	43	220	63	140	177	77	3521.81	59.34484	22.43024	1.308002	0.793725	1.779437	1.587451
TKN (mg/l as N)	7	0.757143	0.558375	0.95591	0.8	5.3	0.4	1	0.6	1	0.6	0.4	0.04619	0.21492	0.081232	-0.48927	0.793725	-0.18257	1.587451
E. coli (CFU/100ml)	21	399.0476	23.77111	774.3241	100	8380	5	3600	30	240	3595	210	679686.5	824.431	179.9056	3.317774	0.501195	12.09559	0.971941
TOC (mg/l)	7	4.371429	2.882346	5.860511	3.9	30.6	2.5	7.4	3.3	5.4	4.9	2.1	2.592381	1.610087	0.608556	1.155799	0.793725	1.480489	1.587451
Hardness (mg/l)	21	164.1429	138.7084	189.5773	153	3447	76	286	128	200	210	72	3122.129	55.87601	12.19315	0.656962	0.501195	-0.01571	0.971941
Chloride (mg/l)	7	7	5.150309	8.849691	6	49	5	10	5	9	5	4	4	2	0.755929	0.525	0.793725	-1.55	1.587451
Dissolved Oxygen (mg/l)	15	8.732	7.488439	9.975561	8.48	130.98	5.14	12.93	6.8	9.75	7.79	2.95	5.042631	2.24558	0.579808	0.305396	0.580119	-0.43782	1.120897
pH	15	7.466	7.2702	7.6618	7.48	111.99	6.84	8.02	7.2	7.67	1.18	0.47	0.125011	0.35357	0.091291	-0.2401	0.580119	-0.48401	1.120897
Copper (ug/l)	9	3.344444	1.756484	4.932405	2	30.1	2	6.6	2	5	4.6	3	4.267778	2.06586	0.68862	1.018664	0.717137	-1.06255	1.399708
Iron (ug/l)	8	2061.25	1004.698	3117.802	1550	16490	990	4900	1400	2350	3910	950	1597155	1263.786	446.8159	1.999874	0.752101	4.116197	1.48088
Zinc (ug/l)	9	14.75556	8.16133	21.34978	9.4	132.8	7.3	32	9	20	24.7	11	73.59528	8.578769	2.85959	1.163084	0.717137	0.478662	1.399708

Station: P-76

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	22	81.72727	61.57712	101.8774	87.5	1798	48	249	60	71	201	11	2065.446	45.44718	9.689371	2.923845	0.490962	9.033258	0.95278
Ammonia (mg/l as N)	22	0.284091	0.140684	0.427498	0.2	6.25	0.05	1.2	0.1	0.3	1.15	0.2	0.104616	0.323444	0.068958	2.015243	0.490962	3.465811	0.95278
BOD (mg/l)	19	2.068421	1.205764	2.931078	1.5	39.3	0.5	7.6	1	2.4	7.1	1.4	3.203392	1.789802	0.410609	1.993114	0.523767	4.281236	1.01427
COD (mg/l)	22	15.64545	12.46583	18.82508	14.95	344.2	8	39	11.4	15.5	31	4.1	51.42926	7.17142	1.528952	2.25524	0.490962	5.572184	0.95278
Cyanide (mg/l)	20	0.0061	0.004621	0.007579	0.005	0.122	0.005	0.019	0.005	0.0055	0.014	0.0005	1E-05	0.003161	0.000707	3.95454	0.512103	16.534	0.992384
Nitrate (mg/l as N)	22	2.118182	1.478498	2.757866	1.7	46.6	0.2	5	1	3.2	4.8	2.2	2.081558	1.442761	0.307598	0.587012	0.490962	-0.71138	0.95278
Total Phosphorus (mg/l as P)	22	0.174545	0.113819	0.235272	0.135	3.84	0.06	0.61	0.09	0.2	0.55	0.11	0.018759	0.136965	0.029201	2.388063	0.490962	5.688222	0.95278
Total Solids (mg/l)	22	269.5	204.151	334.849	234.5	5929	148	816	177	275	668	98	21723.79	147.3899	31.42363	2.693657	0.490962	8.874354	0.95278
Suspended Solids (mg/l)	22	77.40909	40.39838	114.4198	49	1703	10	380	24	103	370	79	6968.063	83.47492	17.79691	2.551727	0.490962	7.948043	0.95278
Dissolved Solids (mg/l)	7	135.2857	105.0299	165.5416	127	947	103	181	108	177	78	69	1070.238	32.71449	12.36492	0.637934	0.793725	-1.52129	1.587451
Sulfate (mg/l)	7	26.14286	19.01037	33.27534	26	183	14	36	20	34	22	14	59.47619	7.712081	2.914893	-0.2879	0.793725	-0.58419	1.587451
TKN (mg/l as N)	22	1.018182	0.758339	1.278025	0.8	22.4	0.4	2.4	0.6	1.5	2	0.9	0.343463	0.586057	0.124948	1.033739	0.490962	-0.0485	0.95278
E. coli (CFU/100ml)	22	413.4091	96.0086	730.8096	105	9095	5	2500	60	350	2495	290	512474.7	715.8734	152.6247	2.3932	0.490962	4.973605	0.95278
TOC (mg/l)	7	2.971429	2.522412	3.420445	3	20.8	2.4	3.6	2.4	3.4	1.2	1	0.235714	0.485504	0.183503	-0.06242	0.793725	-1.87093	1.587451
Hardness (mg/l)	22	123.0455	94.91713	151.1738	104	2707	48	350	90	138	302	48	4024.807	63.44137	13.52575	2.551998	0.490962	7.836782	0.95278
Chloride (mg/l)	7	6.071429	2.226281	9.916576	5	42.5	2.5	13	2.5	10	10.5	7.5	17.28571	4.157609	1.571429	0.831643	0.793725	-0.66326	1.587451
Dissolved Oxygen (mg/l)	17	8.591176	7.581084	9.601269	8.2	146.05	5.7	12.17	7.21	9.58	6.47	2.37	3.859561	1.964577	0.47648	0.390369	0.549747	-0.58233	1.063198
pH	17	7.386471	7.211442	7.561499	7.34	125.57	6.5	8.03	7.27	7.6	1.53	0.33	0.115887	0.340421	0.082564	-0.59065	0.549747	2.187631	1.063198
Copper (ug/l)	20	3.68	2.509068	4.850932	2	73.6	2	10	2	5.15	8	3.15	6.259579	2.501915	0.559445	1.430886	0.512103	1.213861	0.992384
Iron (ug/l)	8	1725	981.5925	2468.408	1400	13800	800	3000	1000	2600	2200	1600	790714.3	889.2212	314.3872	0.494327	0.752101	-1.81653	1.48088
Zinc (ug/l)	20	14.9325	9.214562	20.65044	10	298.65	2.25	50	7.35	20	47.75	12.65	149.2659	12.21744	2.731903	1.623662	0.512103	2.336702	0.992384

APPENDIX B

PATOKA RIVER WATERS ASSESSED IN THE CLEAN WATER ACT SECTION 305(B) REPORT 1996 TO 1998

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209010 Segment Number: 00
Waterbody Name: Patoka River Basin (headwaters to reservoir)
Waterbody Type: River Size: 84.10 Miles
Basin: PATOKA RIVER

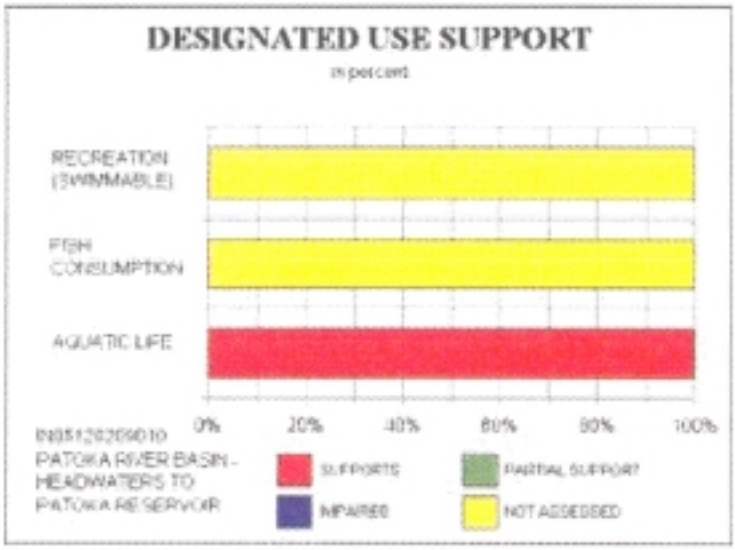
---------- Description of the Waterbody ----------

No description available

Assessment Date: 9804

-------- Use Support ------

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	84.10	0.00	0.00	0.00	0.00	0.00
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	84.10



-- Nonattainment Causes --

Cause	Size Mag

No causes listed

Nonattainment Sources ---

Source	Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209020 Segment Number: 00
Waterbody Name: Patoka River Basin (including Lick Creek)
Waterbody Type: River Size: 125.00 Miles
Basin: PATOKA RIVER

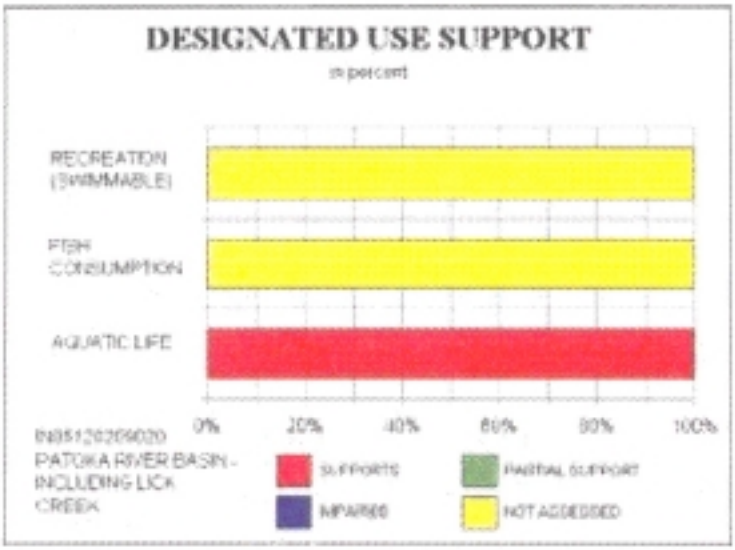
---------- Description of the Waterbody ----------

No description available

Assessment Date: 9804

----- Use Support

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	0.00	125.00	0.00	0.00	0.00	0.00
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	125.00



Nonattainment Causes

Cause	Size	Mag
1500-FLOW ALTERATIONS	125.00	T

Nonattainment Sources -------

Source	Size	Mag
7000-HYDROMODIFICATION	125.00	

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209030 **Segment Number: 00**
Waterbody Name: Hall Creek Basin
Waterbody Type: River **Size: 58.30 Miles**
Basin: PATOKA RIVER

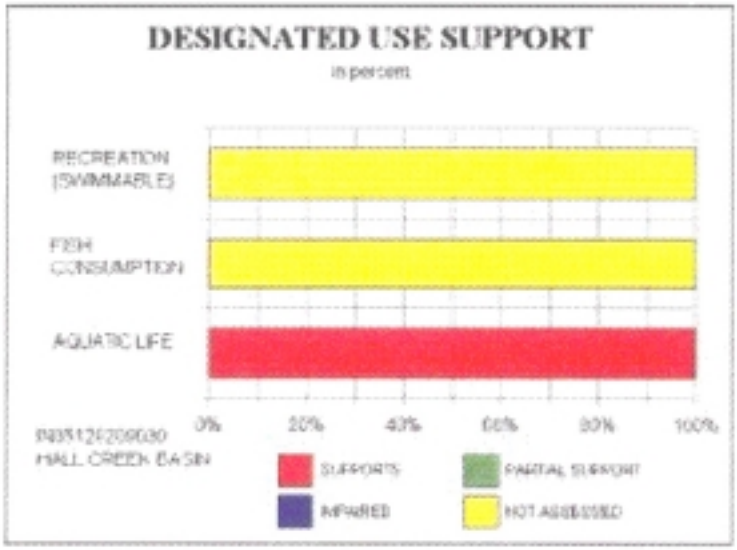
---------- Description of the Waterbody ----------

No description available

Assessment Date: 9804

---------- Use Support ------

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	58.30	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	58.30
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	58.30



Nonattainment Causes ----

Cause **Size Mag**

No causes listed

Nonattainment Sources ---

Source **Size Mag**

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209040 **Segment Number: 00**
Waterbody Name: Hunley Creek Basin
Waterbody Type: River **Size: 67.40 Miles**
Basin: PATOKA RIVER

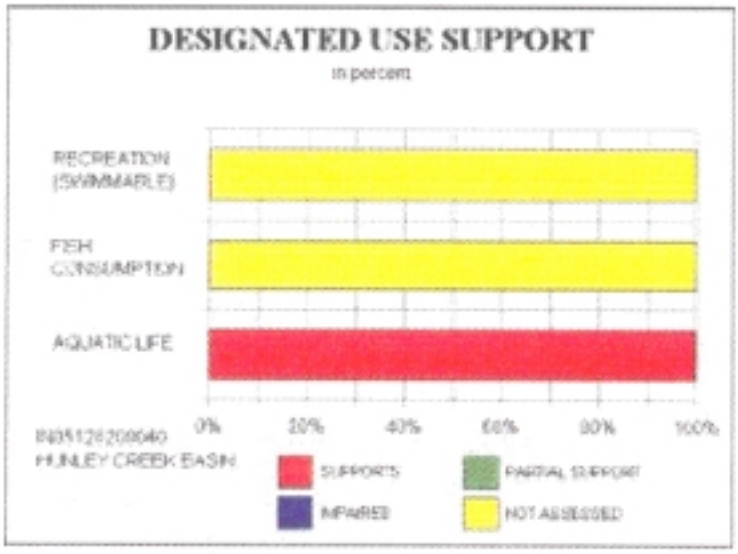
---------- Description of the Waterbody

No description available

Assessment Date: 9804

Use Support --

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	67.40	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	67.40
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	67.40



-- Nonattainment Causes

Cause **Size Mag**

No causes listed

- Nonattainment Sources -

Source **Size Mag**

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209050 Segment Number: 00
Waterbody Name: Patoka River Basin (Hunley Cr to SR 61)
Waterbody Type: River Size: 90.80 Miles
Basin: PATOKA RIVER

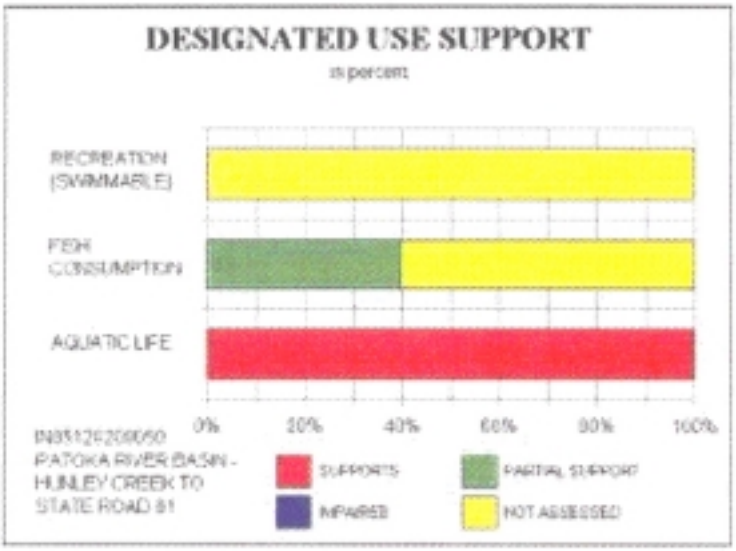
---------- Description of the Waterbody ----------

No description available

Assessment Date: 9804

-------- Use Support ------

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	0.00	90.80	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	35.90	0.00	0.00	54.90
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	90.80



- Nonattainment Causes ---

Cause	Size	Mag
0410-PCBs	35.90	S
0500-METALS	35.90	S
1600-HABITAT ALTER. (non-flow)	90.80	T

Nonattainment Sources

Source	Size	Mag
9000-SOURCE UNKNOWN	35.90	S

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209060 Segment Number
Waterbody Name: Flat Creek Basin
Waterbody Type: River Size: 41.60 Miles
Basin: PATOKA RIVER

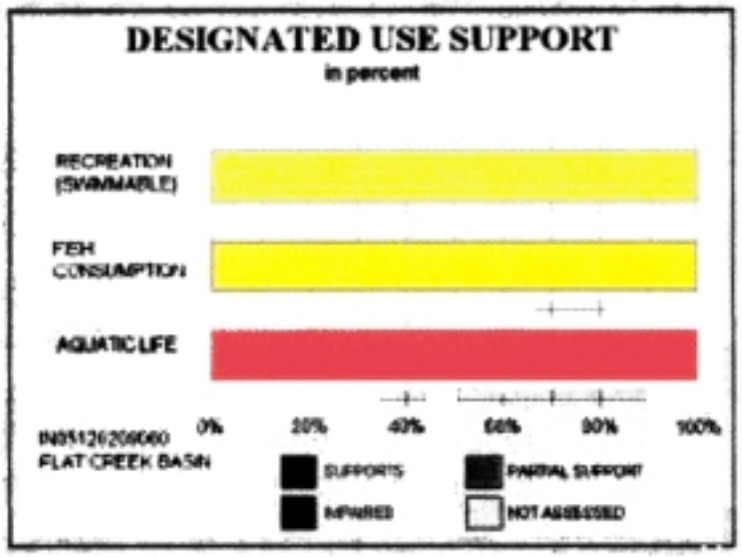
-------- Description of the Waterbody

No description available

Assessment Date: 9804

Use Support

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	41.60	0.00	0.00	0.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	0.00	0.00	0.00	41.60
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	41.60



Nonattainment Causes --------

Cause Size Mag

No causes listed

-------- Nonattainment Sources

Source Size Mag

No sources listed

Overall Use Support Status Report
06-04-98

Waterbody ID : IN05120209070 Segment Number: 00
Waterbody Name: Patoka River Basin (Pike Co to confluence)
Waterbody Type: River Size: 189.80 Miles
Basin: PATOKA RIVER

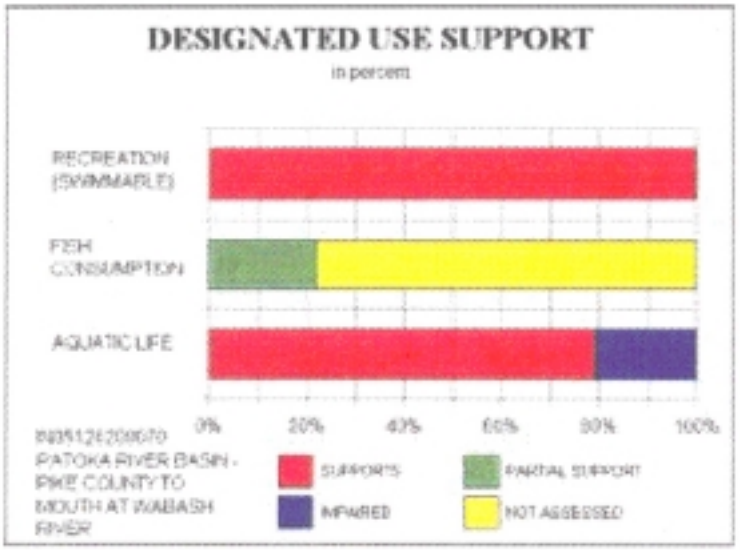
Description of the Waterbody

No description available

Assessment Date: 9804

-------- Use Support

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
AQUATIC LIFE SUPPORT	150.80	0.00	0.00	39.00	0.00	0.00
FISH CONSUMPTION	0.00	0.00	41.30	0.00	0.00	148.50
SWIMMABLE	189.80	0.00	0.00	0.00	0.00	0.00



---------- Nonattainment Causes ----------

Cause	Size	Mag
0410-PCBs	41.30	S
0500-METALS	41.30	S
2400-TOTAL TOXICS	39.00	H
0560-Mercury	41.30	S

Nonattainment Sources -----

Source	Size	Mag
9000-SOURCE UNKNOWN	41.30	S
5000-RESOURCE EXTRACTION	39.00	H
5800-Acid Mine Drainage	39.00	H

Overall Use Support Status Report
06-04-98

Waterbody ID : INP091001 **Segment Number: 00**
Waterbody Name: PATOKA RESERVOIR
Waterbody Type: Lake, Reservoir **Size: 8880.00 Acres**
Lake Latitude/Longitude: 38.43/ 86.67
Significant Publicly Owned Lake => Y
Basin: PATOKA RIVER

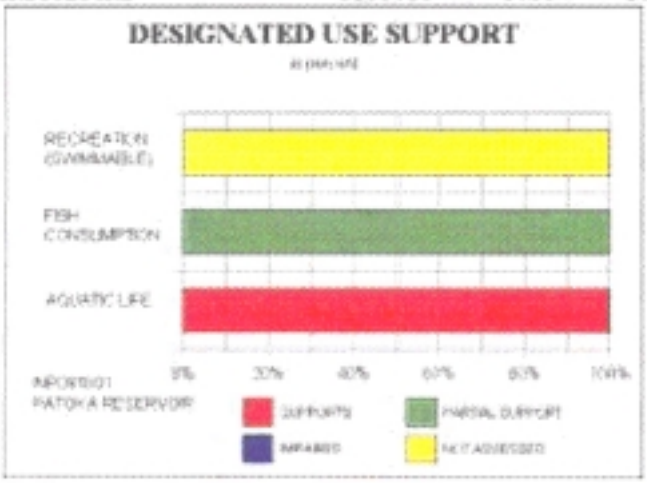
---------- Description of the Waterbody

PATOKA RIVER IMPOUNDMENT 3 MI N OF BIRDSEYE.

Assessment Date: 9804

---------- Use Support ----------

Designated Use	Fully Supp	Threat	Partial Supp	Not Supported	Not Attained	Not Assessed
FISH CONSUMPTION	0.00	0.00	8880.00	0.00	0.00	0.00
AQUATIC LIFE SUPPORT	4440.00	4440.00	0.00	0.00	0.00	0.00
SWIMMABLE	0.00	0.00	0.00	0.00	0.00	8880.00
DRINKING WATER SUPPLY	0.00	0.00	0.00	0.00	0.00	8880.00
AGRICULTURE	8880.00	0.00	0.00	0.00	0.00	0.00



-- Nonattainment Causes ---

Cause	Size	Mag
0500-METALS	8880.00	S
0560-Mercury	8880.00	S
1200-ORGANIC ENRICHMENT/LOW DO	4440.00	S
2210-EXCESS ALGAL GROWTH/CHL-A	8880.00	T

Nonattainment Sources ---

Source	Size	Mag
9000-SOURCE UNKNOWN	8880. 0	S
1000-AGRICULTURE	8880. 0	T
7900-MARINAS AND RECREATIONAL BOATING	8880. 0	T

Comments on the Assessment

168 SQ MI DRAINAGE AREA. 30 FT MAX DEPTH. MORE THAN HALF THE WATER COLUMN TURNS ANOXIC DURING THE SUMMER. US A.C.E. MONITORED TEMPERATURE AND D.O. PROFILES, AND FLOW THROUGH 1997. MINIMAL ALGAE GROWTH CONSISTS ALMOST ENTIRELY OF BLUE-GREEN SPECIES.

APPENDIX C

Potential Stakeholders in the Patoka River Watershed

Potential Stakeholders in the Patoka River Watershed

Crawford County

Crawford Co. SWCD
306 Oak Hill Circle
P.O. Box 189
English, IN 47118
Ph: 812-338-3224 ext.258

USDA
Natural Resources Conservation Service
1855 Gardner Lane, N.W.
Corydon, IN 47112
Ph: 812-738-8121

Dubois County

Patoka Lake
Park Manager
U.S. Army Corps of Engineers
Route 1, Box 263
Dubois, Indiana 47527
Ph: 812-678-3761

Reservoir Manager
IDNR
Rural Route 1
Birdseye, Indiana 47513
Ph: 812-685-2211

Patoka River National Wildlife Refuge
510 ½ West Morton
P.O. Box 217
Oakland City, IN 47660
Ph: 812-743-3333

Ronald Boehm
IDNR Ag. Conservation Specialist
1486 Executive Blvd
Suite A
Jasper, IN 47546-9300
Ph: 812-482-1171

Dubois County SWCD
1486 Executive Blvd
Suite A
Jasper, IN 47546-9300
Ph: 812-482-1171

Kenneth Eck
Purdue Education Specialist
1486 Executive Blvd
Suite A
Jasper, IN 47546-9300
Ph: 812-482-1171

USDA
Natural Resources Conservation Service
1486 Executive Blvd
Suite A
Jasper, IN 47546-9300
Ph: 812-482-1171

Gibson County

USDA
Natural Resources Conservation Service
229 S. Second Ave
Suite 3
Princeton, IN 47670
Ph: 812-385-5033

Gibson Co. SWCD
229 S. Second Ave
Suite 3
Princeton, IN 47670
Ph: 812-385-5033

Gary Seibert
IDNR Resource Specialist
229 S. Second Ave
Suite 3
Princeton, IN 47670
Ph: 812-385-5033

Martin County

Martin Co. SWCD
203 Main Street
P.O. Box 34

Shoals, IN 47581
Ph: 812-247-2423

USDA
Natural Resources Conservation Service
203 Main Street
P.O. Box 34
Shoals, IN 47581
Ph: 812-247-2423

Orange County

Orange Co. SWCD
573 S.E. Main Street, Suite 1
Paoli, IN 47454
Ph: 812-723-3311

Fred Hodges
IDNR Resource Specialist
573 S.E. Main Street, Suite 1
Paoli, IN 47454
Ph: 812-723-3311

USDA
Natural Resources Conservation Service
573 S.E. Main Street, Suite 1
Paoli, IN 47454
Ph: 812-723-3311

Pike County

Pike County SWCD
2101 East Main Street
Petersburg, IN 47567-8870
Ph: 812-354-6120

Michael Shawhan
IDNR Resource Specialist
2101 East Main Street
Petersburg, IN 47567-8870
Ph: 812-354-6120

Sugar Ridge Fish & Wildlife Area
R.R. 1
Box 314
Winslow, IN 47598
Ph: 812-789-2724

Patoka South Fork Watershed
Steering Committee
3728 East St. Rd. 64
Winslow, IN 47598
(812) 789-5059

Southwest Indiana Brine Coalition
3728 East St. Rd. 64
Winslow, IN 47598
(812) 789-5059

Triad Mining
14521 East St. Rd 58
Edwardsport, IN 47567
(812) 328-2117

Kindill Mining
1592 North St Rd. 64
Petersburg, IN 47567
(812) 354-8746

Pike Co. Farm Bureau
P.O. Box 435
Petersburg, IN 47567
(812) 354-8488

Pike County Health Depart
801 Main Street
Petersburg, IN 47567
(812) 354-8796

Pike State Forest
Pike County
Winslow, IN

Pike Co. Extension Service
801 Main Street
Petersburg, IN 47567
(812) 354-6838

USDA
Natural Resources Conservation Service
2101 East Main Street
Petersburg, IN 47567-8870
Ph: 812-354-6120

Pike County Solid Waste
703 East Main
Petersburg, IN 47567
(812) 354-2924

Spencer County

Spencer Co. SWCD
201 Elm Street
Rockport, IN 47635
Ph: 812-649-9136

USDA
Natural Resources Conservation Service
201 Elm Street
Rockport, IN 47635
Ph: 812-649-9136

Warrick County

Warrick Co. SWCD
1124 South 8th Street
Boonville, IN 47601
(812) 897-2840

USDA Natural Resource Cons. Service
1124 South 8th Street
Boonville, IN 47601
(812) 897-2840

IDNR – Division of Soil Cons
1124 South 8th Street
Boonville, IN 47601
(812) 897-2840

Indiana Farm Bureau
225 S East St
Indianapolis, IN 46202

Indiana Department of Environmental Management
100 N. Senate Ave
P.O. Box 6015
Indianapolis, IN 46206-6015

IDEM Switchboard
(317) 232-8603 or (800) 451-6027

Agricultural Liaison	(317) 232-8587
Air Management	(317) 233-0178
Community Relations	(317) 232-8128
Compliance and Technical Assistance	(317) 232-8172
Criminal Investigations	(317) 232-8128
Enforcement	(317) 233-5529
Legal Counsel	(317) 232-8493
Media and Communication Services	(317) 232-8560
Pollution Prevention And Technical Assistance	(317) 232-8172
Solid and Hazardous Waste Management	(317)233-3656
Water Management	(317) 232-8670

Indiana Department of Natural Resources
402 West Washington Street
Indianapolis, IN 46204-2748

IDNR Field Representatives are located in the individual

Division of Engineering	(317) 232-4150
Division of Entomology And Plant Pathology	(317) 232-4120
Division of Fish & Wildlife	(317) 232-4080
Division of Forestry	(317) 232-4105
Division of Historic Preservation & Archaeology	(317) 232-1646
Division of Law Enforcement	(317) 232-4010
Division of Nature Preservation	(317) 232-4052
Division of Oil and Gas	(317) 232-4055
Division of Outdoor Recreation	(317) 232-4070
Division of Public Information and Education	(317) 232-4200

Division of Reclamation (317) 232-1547

Division of Safety and Training (317) 232-4145

Division of Soil Conservation (317) 232-3870
County SWCD's

Indiana State Department of Health
2 North Meridian St
Indianapolis, IN 46204
(317) 233-1325

USDA Natural Resources Conservation Service
6013 Lakeside Blvd
Indianapolis, IN 46278
(317) 290-3200

NRCS Field Representatives are located in the counties.

U.S. EPA Region 5
77 West Jackson Blvd
Chicago, IL 60604
(312) 353-2000
(800) 632-8431

U.S. Army Corps of Engineers
Louisville District
Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Division of State Parks and Reservoirs (317) 232-4124

Division of Water (317) 232-4160

APPENDIX D

FUNDING SOURCES

FUNDING SOURCES

This listing of funding sources was derived from the November 1998 *Watershed Action Guide for Indiana*, which is available from the Watershed Management Section of IDEM.

FEDERAL CONSERVATION AND WATERSHED PROGRAMS

Environmental Protection Agency

Section 319, 604(b), and 104(b)3 Grants

Grants for conservation practices, water body assessment, watershed planning, and watershed projects. Available to non-profit or governmental entities. These monies, enabled by the Clean Water Act, are funneled through the Indiana Department of Environmental Management. *For details see IDEM below.*

U.S. Department of Agriculture (See county listings for local federal agency contacts.)

EQIP: Environmental Quality Incentive Program. Administered by the Natural Resources Conservation Service. Conservation cost-share program for implementing Best Management Practices, available to agricultural producers who agree to implement a whole-farm plan that addresses major resource concerns. Up to $50,000 over a 5- to 10- year period. Some parts of the state are designated Conservation Priority Areas and receive a larger funding allotments.

WRP: Wetland Reserve Program. Administered by the Natural Resources Conservation Service. Easement and restoration program to restore agricultural production land to wetland. Easements may be for 10 years, 30 years, or permanent. Longer easements are preferred. Partnerships with other acquisition programs are encouraged. Restoration and legal costs are paid by NRCS. Landowner retains ownership of the property and may use the land in ways that do not interfere with wetland function and habitat, such as hunting, recreational development, and timber harvesting.

CRP: Conservation Reserve Program. Administered by the Farm Service Agency with technical assistance from NRCS. Conservation easements in certain critical areas on private property. Agricultural producers are eligible. Easements are for 10 or 15 years, depending on vegetative cover, and compensation payments are made yearly to replace income lost through not farming the land. Cost share is available for planting vegetative cover on restored areas.

WHIP: Wildlife Habitat Incentive Program. Administered by the Natural Resources Conservation Service. Cost share to restore habitat on previously farmed land. Private landowners who are agricultural producers are eligible. Cost share up to 75%, and contracts are for 10 years.

FIP: Forestry Incentive Program. Administered by the Natural Resources Conservation Service. Cost-share to assist forest management on private lands. Funds may be limited.

U.S. Fish & Wildlife Service

Partners for Wildlife: assistance for habitat restoration.

STATE CONSERVATION AND WATERSHED PROGRAMS

IDNR Division of Soil Conservation

LARE: Lake & River Enhancement Program. Funds diagnostic and feasibility studies in selected watersheds and cost-share programs through local Soil & Water Conservation Districts. Project oversight provided through county-based Resource Specialists and Lake & River Enhancement Watershed Coordinators. Funding requests for Watershed Land Treatment projects must come from Soil & Water Conservation Districts. If a proposed project area includes more than one district, the affected SWCDs should work together to develop an implementation plan. The SWCDs should then apply for the funding necessary to administer the watershed project. Before applying for funding, the SWCDs should contact the Lake & River Enhancement Coordinators to determine (1) the appropriate watershed to include in the project, (2) if the proposed project meets the eligibility criteria, and (3) if funding is available.

IDNR Division of Fish & Wildlife

Classified Wildlife Habitat Program: Incentive program to foster private wildlife habitat management through tax reduction and technical assistance. Landowners need 15 or more acres of habitat to be eligible. IDNR provides management plans and assistance through District Wildlife Managers. See county listings.

Wildlife Habitat Cost-share Program: Similar to above.

IDNR Division of Forestry

Classified Forest Program: Incentive program to foster private forest management through tax reduction and technical assistance. Landowners need 10 or more acres of woods to be eligible. IDNR provides management plans and assistance through District Foresters. (See county listings.)

Classified Windbreak Act: Establishment of windbreaks at least 450 feet long adjacent to tillable land. Provides tax incentive, technical assistance through IDNR District Foresters.

Forest Stewardship Program & Stewardship Incentives Program: Cost share and technical assistance to encourage responsibly managed and productive private forests.

IDNR Division of Reclamation

Appalachian Clean Streams Initiative: Funds for acid mine drainage abatement.

IDNR Division of Nature Preserves

State Nature Preserve Dedication: Acquisition and management of threatened habitat.

IDEM Office of Water Management

State Revolving Fund: Available to municipalities and counties for facilities development. Will be available in 1999 for nonpoint source projects as well. Funding is through very low-interest loans.

Section 319 Grants: Available to nonprofit groups, municipalities, counties, and institutions for implementing water quality improvement projects that address nonpoint source pollution concerns. Twenty-five percent match is required, which may be cash or in-kind. Maximum grant amount is $112,500. Projects are allowed two years for completion. Projects may be for land treatment through implementing Best Management Practices, for education, and for developing tools and applications for state-wide use.

Section 205(j) Grants, formerly called 604(b) Grants: Available to municipalities, counties, conservation districts, drainage districts. These are for water quality management projects such as studies of nonpoint pollution impacts, nonagricultural NPS mapping, and watershed management projects targeted to Northwest Indiana (including BMPs, wetland restoration, etc.)

Section 104(b)(3) Grants: These are watershed project grants for innovative demonstration projects to promote statewide watershed approaches for permitted discharges, development of storm water management plans by small municipalities, projects involving a watershed approach to municipal separate sewer systems, and projects that directly promote community based environmental protection. NOTE: the application time frame for IDEM grant programs is annually, by March 31st.

PRIVATE FUNDING SOURCES

National Fish and Wildlife Foundation

1120 Connecticut Avenue, NW Suite 900, Washington DC 20036. Nonprofit, established by Congress 1984, awards challenge grants for natural resource conservation. Federally appropriated funds are used to match private sector funds. Six program areas include wetland conservation, conservation education, fisheries, migratory bird conservation, conservation policy, and wildlife habitat.

Individual Utilities

Check local utilities such as IPALCO, CINergy, REMC, NIPSCO. Many have grants for educational and environmental purposes.

Indiana Hardwood Lumbermen's Association

Indiana Tree Farm Program

The Nature Conservancy

Land acquisition and restoration.

Southern Lake Michigan Conservation Initiative
Blue River Focus Area
Fish Creek Focus Area
Natural Areas Registry
Hoosier Landscapes Capitol Campaign

Conservation Technology Information Center (CTIC)

'Know Your Watershed' educational materials are available

Indiana Heritage Trust

Land acquisition programs

Ducks Unlimited

Land acquisition and habitat restoration assistance

Quail Unlimited

Pheasants Forever

Sycamore Land Trust

Acres Inc.

Land trust

Oxbow, Inc.

Land trust

SOURCES OF ADDITIONAL FUNDING OPPORTUNITIES

Catalog of Federal Funding Sources for Watershed Protection
EPA Office of Water (EPA841-B-97-008) September 1997

GrantsWeb: http://web.fie.com/cws/sra/resource.htm